

Table 1C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Demographic Indicators
Children Aged < 5 Years (2,3)

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Total Records	Number
Individual Children	257,910
Total Records (All Visits)	413,688

Source of Data	Number	%
WIC	257,910	100.0
EPSDT	0	0.0
Child Health-MCH	0	0.0
Child Health-HMO	0	0.0
Headstart	0	0.0
School Health	0	0.0
Other	0	0.0
Total	257,910	100.0
<i>Excluded Unknown:</i> 0 0.0 %		

Race/Ethnic Distribution	Number	%
White, Not Hispanic	131,726	51.1
Black, Not Hispanic	66,244	25.7
Hispanic	36,137	14.0
American Indian/Alaska Native	752	0.3
Asian/Pacific Islander	3,910	1.5
Multiple Races	19,021	7.4
All Other	0	0.0
Total	257,790	100.0
<i>Excluded Unknown:</i> 120 0.0 %		

Age Distribution (4)	Number	%
0 - 5 Months	57,773	22.4
6 - 11 Months	29,517	11.4
12 - 23 Months	53,027	20.6
24 - 35 Months	42,633	16.5
3 - 4 Years	74,960	29.1
Total	257,910	100.0

% of Poverty Level	Number	%
0-50	112,927	45.3
51-100	75,112	30.1
101-130	26,812	10.7
131-150	12,250	4.9
151-185	15,143	6.1
186-200	1,680	0.7
Over 200	5,568	2.2
Adjunctive Eligibility	0	0.0
Total	249,492	100.0
<i>Excluded Unknown:</i> 8,418 3.3 %		

Program Participation	Number	%
WIC	257,910	100.0
SNAP	257,037	59.3
Medicaid	255,653	79.9
TANF	257,157	15.1
<i>Excluded Unknown:</i>		
WIC	0	0.0
SNAP	873	0.3
Medicaid	2,257	0.9
TANF	753	0.3

Migrant Status	Number	%
Yes	2,799	1.1
No	255,111	98.9
Total	257,910	100.0
<i>Excluded Unknown:</i> 0 0.0 %		

- (1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with unknown data or errors.
(4) Records rejected if date of birth and date of visit unknown.
* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 2C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Health Indicators
Children Aged < 5 Years ⁽²⁾

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Summary of Health Indicators ⁽³⁾				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Birthweight (4)				
Low	59,582	9.4	1,851,546	9.0
High	59,582	6.9	1,851,546	6.3
Height and Weight (5,6)				
< 5 Yrs Short Stature	254,034	5.7	8,057,124	6.3
< 5 Yrs Underweight	254,034	2.8	8,057,124	3.6
< 5 Yrs Obese	254,034	10.9	8,057,124	12.4
≥ 2 Yrs Overweight	116,006	16.6	3,572,939	16.1
≥ 2 Yrs Obese	116,006	13.3	3,572,939	14.4
Anemia (7)				
Low Hb	166,734	15.0	5,147,185	14.7
Low Hct	14	*	435,650	10.9
Low Hb/Hct	166,748	15.0	5,391,027	14.6
Breastfeeding (8)				
Ever Breastfed	60,153	59.5	1,689,615	63.2
Breastfed At Least 6 Months	46,409	18.4	908,604	25.1
Breastfed At Least 12 Months	41,436	8.5	1,069,942	16.9
Smoking in Household	257,103	6.2	4,203,554	9.4
≤ 2 Hours TV Viewing/ Day ⁽⁹⁾	124,262	83.2	1,200,700	79.2

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis. Low birthweight is defined as < 2500 grams and high birthweight is defined as > 4000 grams.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

(8) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(9) Children aged 2 years and older included in the analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 3C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Breastfeeding Indicators
Children Aged < 5 Years ⁽²⁾

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Summary of Breastfeeding Indicators ⁽³⁾				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Breastfeeding Duration ^(4,5)				
Ever Breastfed	60,153	59.5	1,689,615	63.2
Breastfed 1+ Weeks	54,421	55.1	1,377,351	60.6
Breastfed 2+ Weeks	44,719	50.9	1,047,691	57.9
Breastfed 3+ Weeks	39,537	45.9	856,066	54.5
Breastfed 4+ Weeks	37,239	42.2	754,209	51.2
Breastfed 6+ Weeks	35,688	36.2	655,027	44.1
Breastfed 2+ Months	36,962	33.0	631,752	38.2
Breastfed 3+ Months	40,663	27.7	686,347	33.3
Breastfed 4+ Months	45,123	23.4	774,371	29.7
Breastfed 5+ Months	49,414	20.5	867,746	26.8
Breastfed 6+ Months	46,409	18.4	908,604	25.1
Breastfed 9+ Months	36,197	11.8	987,191	20.4
Breastfed 12+ Months	41,436	8.5	1,069,942	16.9
Breastfed 18+ Months	31,100	3.0	794,365	10.9
Exclusive Breastfeeding ⁽⁶⁾				
Exclusively Breastfed at Least 3 Months	38,333	12.2	363,039	10.7
Exclusively Breastfed at Least 6 Months	43,955	5.9	466,279	6.1

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. For each breastfeeding duration category, the analysis includes only children who turned that age during the reporting period by/on their date of visit. For example, infants who turned 9 months old during the reporting period by/on their date of visit are included in the 9+ months analysis.

(5) It is possible the analysis will show that slightly more infants are breastfed at older ages, e.g. 1+ week of age, than at younger ages, e.g. at birth (ever breastfed), due to variation in infants included in each breastfeeding analysis category.

(6) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 4C
2011 Pediatric Nutrition Surveillance ⁽¹⁾

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Michigan
Comparison of Racial and Ethnic Distribution by Contributor to Nation
Children Aged < 5 Years ⁽²⁾

Comparison of Racial and Ethnic Distribution								
Contributor	Number Included in Analysis (3)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other / Unknown %
Michigan	257,910	51.1	25.7	14.0	0.3	1.5	7.4	0.0
Nation (Prior Year)	8,672,965	32.5	19.1	39.7	0.9	2.5	2.7	2.5

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with errors.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 5C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Age Distribution by Contributor to Nation
Children Aged < 5 Years ⁽²⁾

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Comparison of Age Distribution				
Contributor	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Michigan	257,910	33.8	20.6	45.6
Nation (Prior Year)	8,672,965	33.7	22.1	44.2

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 6C
2011 Pediatric Nutrition Surveillance (1)
Michigan

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Comparison of Growth and Anemia Indicators by Contributor to Nation
Children Aged < 5 Years (2)

Comparison of Growth and Anemia Indicators (3)												
Contributor	Birthweight (4)			Height and Weight (5,6)						Anemia Low Hb/Hct (7)		
	Low		High	Short Stature	Under- weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g	% >4000 g	Number	%	%	%	Number	% Overweight	% Obese	Number	%
Michigan	59,582	9.4	6.9	254,034	5.7	2.8	10.9	116,006	16.6	13.3	166,748	15.0
Nation (Prior Year)	1,851,546	9.0	6.3	8,057,124	6.3	3.6	12.4	3,572,939	16.1	14.4	5,391,027	14.6

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



Table 7C
2011 Pediatric Nutrition Surveillance (1)
Michigan

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Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Contributor to Nation (2)
Children Aged < 5 Years (3)

Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4)								
	Breastfeeding (5)			Exclusive Breastfeeding (6)			≤2 Hours TV Viewing/Day (7)	Smoking in Household
Contributor	Number	% Ever Breastfed	Number % Breastfed At Least 6 Months	Number % Breastfed At Least 12 Months	Number % Breastfed At Least 3 Months	Number % Breastfed At Least 6 Months	Number %	Number %
Michigan	60,153	59.5	46,409 18.4	41,436 8.5	38,333 12.2	43,955 5.9	124,262 83.2	257,103 6.2
Nation (Prior Year)	1,689,615	63.2	908,604 25.1	1,069,942 16.9	363,039 10.7	466,279 6.1	1,200,700 79.2	4,203,554 9.4

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(6) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(7) Children aged 2 years and older included in the analyses.

* Percentages and ranks not calculated if < 100 records are available for analysis after exclusions.



Table 8C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Growth and Anemia Indicators by Race/Ethnicity or Age
Children Aged < 5 Years ⁽²⁾

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Growth and Anemia Indicators by Race/Ethnicity or Age ⁽³⁾												
	Birthweight (4)			Height and Weight (5,6)							Anemia Low Hb/Hct (7)	
		Low %	High %		Short Stature	Under- weight	Obese	> 2 Yrs Overweight and Obese				
					%	%	%		%	%		%
	Number	<2500 g	>4000 g	Number				Number	Overweight	Obese	Number	
Race/Ethnicity												
White, Not Hispanic	30,456	7.8	8.4	130,074	5.6	2.5	10.3	59,436	16.8	12.7	85,116	10.8
Black, Not Hispanic	16,631	13.6	4.0	65,017	6.5	3.8	9.5	27,832	14.2	10.8	41,258	24.6
Hispanic	7,285	7.3	7.5	35,517	5.2	1.9	14.9	17,835	19.3	18.4	24,892	13.5
American Indian/Alaska Native	156	5.8	12.8	709	3.7	1.4	17.9	342	19.6	21.1	431	14.6
Asian/Pacific Islander	868	9.3	2.9	3,849	6.6	4.2	9.2	1,762	13.2	11.9	2,607	14.3
Multiple Races	4,135	8.9	7.2	18,760	4.9	2.6	12.1	8,797	17.1	14.5	12,428	14.4
All Other	51	*	*	108	8.3	0.9	13.0	2	*	*	16	*
Total	59,582	9.4	6.9	254,034	5.7	2.8	10.9	116,006	16.6	13.3	166,748	15.0
Age												
0 - 11 Months	-	-	-	85,287	9.2	4.2	6.6	-	*	*	9,263	19.4
12 - 23 Months	-	-	-	52,741	5.5	0.4	12.5	-	*	*	61,304	17.5
24 - 35 Months	-	-	-	42,218	3.5	2.8	11.6	42,218	15.9	11.6	35,627	16.0
36 - 47 Months	-	-	-	38,125	3.2	3.0	13.8	38,125	16.6	13.8	33,696	12.1
48 - 59 Months	-	-	-	35,663	3.1	2.8	14.6	35,663	17.4	14.6	26,858	9.8
Total	-	-	-	254,034	5.7	2.8	10.9	116,006	16.6	13.3	166,748	15.0

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age $<$ 5th percentile, underweight is defined as BMI-for-age $<$ 5th percentile, overweight is defined as BMI-for-age \geq 85th to $<$ 95th percentile, and obesity is defined as \geq 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages are not calculated if $<$ 100 records are available for analysis after exclusions.



Table 9C
2011 Pediatric Nutrition Surveillance (1)
Michigan

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Breastfeeding, TV Viewing, and Smoking in Household by Race/Ethnicity or Age (2)
Children Aged < 5 Years (3)

Breastfeeding, TV Viewing, and Smoking in Household by Race/Ethnicity or Age (4)										
	Breastfeeding (5)						<2 Hours TV/Video Viewing/Day (6)		Smoking in Household	
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months	Number	%	Number	%
Race/Ethnicity										
White, Not Hispanic	30,768	65.6	23,790	21.0	21,565	9.8	63,716	88.3	131,362	5.9
Black, Not Hispanic	16,744	46.3	12,646	11.9	10,347	4.6	29,667	72.5	66,054	8.3
Hispanic	7,365	62.8	5,732	22.2	5,652	10.1	19,218	82.4	36,022	3.2
American Indian/Alaska Native	170	58.2	130	18.5	109	10.1	368	84.5	718	5.6
Asian/Pacific Islander	896	69.4	694	34.9	667	22.2	1,893	78.8	3,887	1.9
Multiple Races	4,153	58.8	3,349	14.9	3,084	6.5	9,399	84.5	18,961	7.7
All Other	57	*	68	*	12	*	1	*	99	*
Total	60,153	59.5	46,409	18.4	41,436	8.5	124,262	83.2	257,103	6.2
Age										
0 - 11 Months	-	-	-	-	-	-	0	*	86,832	5.0
12 - 23 Months	-	-	-	-	-	-	0	*	52,941	6.3
24 - 35 Months	-	-	-	-	-	-	49,815	86.0	42,564	6.6
36 - 47 Months	-	-	-	-	-	-	38,620	81.6	38,631	7.2
48 - 59 Months	-	-	-	-	-	-	35,827	80.8	36,135	7.3
Total	60,153	59.5	46,409	18.4	41,436	8.5	124,262	83.2	257,103	6.2

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(6) Children aged 2 years and older included in the analysis

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 10C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Racial and Ethnic Distribution
Children Aged < 5 Years ⁽²⁾

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Run Date: 3 / 12 / 12

Summary of Trends in Racial and Ethnic Distribution								
Year	Number Included in Analysis (3)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other / Unknown %
2011	257,910	51.1	25.7	14.0	0.3	1.5	7.4	0.0
2010	235,300	51.6	25.2	14.4	0.2	1.5	7.0	0.0
2009	260,806	51.9	25.5	14.4	0.3	1.4	6.5	0.0
2008	247,549	52.9	25.9	13.8	0.3	1.5	5.5	0.0
2007	237,338	52.8	26.5	13.9	0.3	1.5	4.9	0.0
2006	232,137	53.1	26.5	13.7	0.4	1.6	4.7	0.0
2005	229,602	49.1	24.7	11.4	0.5	1.5	2.1	10.8
2004	227,623	57.7	28.6	11.5	0.7	1.5	0.0	0.0
2003	222,370	57.7	29.1	11.1	0.7	1.4	0.0	0.0
2002	223,043	58.0	29.6	10.6	0.6	1.3	0.0	0.0
2001	228,141	57.3	30.6	10.3	0.6	1.2	0.0	0.0
2000	222,687	57.2	31.5	9.5	0.6	1.2	0.0	0.0
1999	322,928	58.9	31.0	8.2	0.7	1.2	0.0	0.0
1998	222,437	59.5	31.2	7.5	0.6	1.2	0.0	0.0
1997	223,436	58.9	32.3	7.0	0.6	1.2	0.0	0.0
1996	219,085	58.5	32.9	6.9	0.6	1.2	0.0	0.0
1995	217,109	59.1	32.8	6.4	0.6	1.0	0.0	0.0
1994	79,477	60.1	32.8	5.5	0.7	0.9	0.0	0.0
1993	2	*	*	*	*	*	*	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with errors.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 11C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Age Distribution
Children Aged < 5 Years (2)

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Summary of Trends in Age Distribution (3)				
Year	Number Included in Analysis (4)	0-11 Months %	12-23 Months %	24-59 Months %
2011	257,910	33.8	20.6	45.6
2010	235,300	32.5	21.7	45.9
2009	260,806	32.9	22.5	44.7
2008	247,549	35.5	21.7	42.8
2007	237,338	36.4	21.5	42.1
2006	232,137	36.7	21.2	42.1
2005	229,602	36.3	21.3	42.4
2004	227,623	36.1	20.9	43.0
2003	222,370	36.0	20.7	43.2
2002	223,043	35.8	21.2	43.0
2001	228,141	37.9	20.4	41.7
2000	222,687	38.3	20.2	41.5
1999	322,928	36.1	21.3	42.6
1998	222,437	38.4	19.8	41.7
1997	223,436	37.8	19.8	42.4
1996	219,085	36.9	20.6	42.5
1995	217,109	38.3	20.8	40.8
1994	79,477	38.0	22.6	39.5

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Records rejected if date of birth and date of visit unknown.

(4) Excludes records with unknown data or errors.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 11C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Age Distribution
Children Aged < 5 Years (2)

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Summary of Trends in Age Distribution (3)				
Year	Number Included in Analysis (4)	0-11 Months %	12-23 Months %	24-59 Months %
1993	2	*	*	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Records rejected if date of birth and date of visit unknown.

(4) Excludes records with unknown data or errors.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 12C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Growth and Anemia Indicators
Children Aged < 5 Years ⁽²⁾

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Summary of Trends in Growth and Anemia Indicators ⁽³⁾												
Year	Birthweight (4)			Height and Weight (5,6)							Anemia Low Hb/Hct (7)	
	Low	High		Short Stature	Under- weight	Obese	> 2 Yrs Overweight and Obese					
	Number	% <2500 g	% >4000 g	Number	%	%	%	Number	% Overweight	% Obese	Number	%
2011	59,582	9.4	6.9	254,034	5.7	2.8	10.9	116,006	16.6	13.3	166,748	15.0
2010	44,244	9.0	7.0	231,396	5.6	2.8	11.4	106,019	16.3	13.3	137,121	15.6
2009	61,144	9.4	6.8	255,652	6.0	2.8	11.7	114,489	16.6	13.7	166,887	15.0
2008	57,235	9.5	7.2	240,877	7.3	3.0	11.8	103,523	16.6	13.9	143,054	15.7
2007	56,363	9.6	7.2	231,079	7.2	3.1	11.5	97,905	16.4	13.7	139,304	14.6
2006	55,559	9.8	7.3	226,166	7.3	3.2	11.3	95,780	16.2	13.3	135,168	12.9
2005	53,632	9.8	7.8	222,917	7.1	3.3	11.1	95,227	15.6	12.7	136,536	14.0
2004	52,604	9.6	8.0	222,099	7.2	3.2	11.8	95,863	16.1	13.2	136,704	13.1
2003	50,792	9.4	8.3	216,864	7.3	3.4	11.5	93,962	16.1	12.9	134,250	13.1
2002	49,439	9.5	8.2	216,922	7.4	3.6	11.1	94,065	15.7	12.4	139,155	13.0

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age $<$ 5th percentile, underweight is defined as BMI-for-age $<$ 5th percentile, overweight is defined as BMI-for-age \geq 85th to $<$ 95th percentile, and obesity is defined as \geq 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages are not calculated if $<$ 100 records are available for analysis after exclusions.



Table 12C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Growth and Anemia Indicators
Children Aged < 5 Years ⁽²⁾

Page: 14
Run Date: 3/12/2012

Summary of Trends in Growth and Anemia Indicators ⁽³⁾												
Year	Birthweight (4)			Height and Weight (5,6)							Anemia Low Hb/Hct (7)	
	Low		High	Short Stature		Under- weight	Obese	> 2 Yrs Overweight and Obese				
	Number	% <2500 g	% >4000 g	Number	%	%	%	Number	% Overweight	% Obese	Number	%
2001	55,685	9.7	8.5	222,157	8.1	3.8	10.7	93,453	15.6	12.3	164,937	13.8
2000	55,392	8.9	8.6	217,091	7.9	3.9	10.6	90,754	15.5	12.0	160,182	14.6
1999	72,792	8.9	8.9	314,891	7.7	4.0	10.0	135,007	14.8	11.0	208,807	15.1
1998	55,572	9.4	8.8	215,738	7.9	4.4	9.3	90,759	14.3	10.1	168,297	14.7
1997	55,789	9.3	9.0	217,229	8.0	4.3	9.6	92,891	14.5	10.1	171,694	15.7
1996	54,558	9.3	8.8	213,459	8.2	4.5	9.1	91,581	14.5	9.7	168,939	16.1
1995	56,302	9.4	8.9	211,604	8.8	4.5	8.7	87,223	14.2	9.6	165,448	16.9
1994	27,227	9.4	9.3	77,709	9.0	3.9	9.3	30,925	15.0	10.2	58,857	15.3
1993	0	*	*	1	*	*	*	1	*	*	2	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age $<$ 5th percentile, underweight is defined as BMI-for-age $<$ 5th percentile, overweight is defined as BMI-for-age \geq 85th to $<$ 95th percentile, and obesity is defined as \geq 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages are not calculated if $<$ 100 records are available for analysis after exclusions.



Table 13C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Breastfeeding
Children Aged < 5 Years ⁽²⁾

Page: 15
Run Date: 3/12/2012

Summary of Trends in Breastfeeding ⁽³⁾						
Year	Breastfeeding (4)					
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
2011	60,153	59.5	46,409	18.4	41,436	8.5
2010	44,728	54.9	31,130	17.8	29,900	8.4
2009	62,038	53.5	44,879	18.5	42,347	7.8
2008	60,080	52.5	40,792	15.8	37,776	12.0
2007	59,326	51.8	43,476	15.3	38,593	12.4
2006	58,676	51.2	41,890	15.8	36,303	12.9
2005	57,291	50.9	42,538	15.5	36,578	12.2
2004	55,961	48.7	43,459	14.6	35,951	11.9
2003	53,953	48.0	41,545	14.7	34,040	11.8
2002	52,433	46.7	41,779	13.6	34,975	10.7

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 13C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Breastfeeding
Children Aged < 5 Years ⁽²⁾

Page: 16
Run Date: 3/12/2012

Summary of Trends in Breastfeeding ⁽³⁾						
Year	Breastfeeding (4)					
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
2001	58,927	45.2	43,743	12.3	35,033	9.6
2000	58,579	43.3	42,280	12.4	33,524	9.2
1999	74,508	43.3	51,954	11.9	41,048	8.9
1998	55,523	42.8	40,643	11.2	32,201	8.7
1997	55,724	41.0	40,425	10.3	32,679	8.2
1996	52,980	39.5	38,986	10.3	33,192	7.6
1995	52,745	38.4	39,431	10.0	32,111	7.7
1994	25,354	39.7	19,285	9.3	15,452	6.7
1993	0	*	0	*	1	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 14C
2011 Pediatric Nutrition Surveillance
Michigan
Children Aged < 5 Years

Page: 17
Run Date: 3 / 12 / 12

This table is forthcoming. It may present changes over time in the prevalence of short stature, underweight, overweight, or anemia among cohorts of children participating in the PedNSS.

Table 15C
2011 Pediatric Nutrition Surveillance
Michigan
Children Aged < 5 Years

Page: 18
Run Date: 3 / 12 / 12

This table is forthcoming. It may present changes over time in the prevalence of short stature, underweight, overweight, or anemia among cohorts of children participating in the PedNSS.

Table 16C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Growth Indicators by Race/Ethnicity and Age
Children Aged < 5 Years ⁽²⁾

Page: 19
Run Date: 3/12/2012

Growth Indicators by Race/Ethnicity and Age ⁽³⁾								
	Short Stature (4,5)		Underweight (4,5)		Obese (4,5)		\geq 2 Yrs Overweight and Obese (4,5)	
	Number	%	Number	%	Number	%	Number	% Overweight % Obese
White, Not Hispanic								
0 - 11 Months	43,440	8.6	43,440	4.0	43,440	6.1	0	0.0 0.0
12 - 23 Months	27,198	5.3	27,198	0.3	27,198	11.7	0	0.0 0.0
24 - 59 Months	59,436	3.6	59,436	2.4	59,436	12.7	59,436	16.8 12.7
Total	130,074	5.6	130,074	2.5	130,074	10.3	59,436	16.8 12.7
Black, Not Hispanic								
0 - 11 Months	23,882	11.2	23,882	4.7	23,882	6.6	0	0.0 0.0
12 - 23 Months	13,303	6.1	13,303	0.5	13,303	11.7	0	0.0 0.0
24 - 59 Months	27,832	2.6	27,832	4.7	27,832	10.8	27,832	14.2 10.8
Total	65,017	6.5	65,017	3.8	65,017	9.5	27,832	14.2 10.8
Hispanic								
0 - 11 Months	10,385	8.0	10,385	3.7	10,385	8.1	0	0.0 0.0
12 - 23 Months	7,297	5.4	7,297	0.2	7,297	16.2	0	0.0 0.0
24 - 59 Months	17,835	3.4	17,835	1.6	17,835	18.4	17,835	19.3 18.4
Total	35,517	5.2	35,517	1.9	35,517	14.9	17,835	19.3 18.4
American Indian/Alaska Native								
0 - 11 Months	242	5.8	242	1.7	242	9.1	0	0.0 0.0
12 - 23 Months	125	2.4	125	0.0	125	26.4	0	0.0 0.0
24 - 59 Months	342	2.6	342	1.8	342	21.1	342	19.6 21.1
Total	709	3.7	709	1.4	709	17.9	342	19.6 21.1

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.

(5) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age $<$ 5th percentile, underweight is defined as BMI-for-age $<$ 5th percentile, overweight is defined as BMI-for-age \geq 85th to $<$ 95th percentile, and obesity is defined as \geq 95th percentile.

* Percentages are not calculated if $<$ 100 records are available for analysis after exclusions.



Table 16C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan
Growth Indicators by Race/Ethnicity and Age
Children Aged < 5 Years ⁽²⁾

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Run Date: 3/12/2012

Growth Indicators by Race/Ethnicity and Age ⁽³⁾								
	Short Stature (4,5)		Underweight (4,5)		Obese (4,5)		\geq 2 Yrs Overweight and Obese (4,5)	
	Number	%	Number	%	Number	%	Number	% Overweight % Obese
Asian/Pacific Islander								
0 - 11 Months	1,268	8.0	1,268	4.3	1,268	5.9	0	0.0 0.0
12 - 23 Months	819	8.1	819	1.0	819	8.4	0	0.0 0.0
24 - 59 Months	1,762	4.9	1,762	5.7	1,762	11.9	1,762	13.2 11.9
Total	3,849	6.6	3,849	4.2	3,849	9.2	1,762	13.2 11.9
Multiple Races								
0 - 11 Months	5,969	8.5	5,969	4.4	5,969	6.8	0	0.0 0.0
12 - 23 Months	3,994	4.3	3,994	0.3	3,994	14.6	0	0.0 0.0
24 - 59 Months	8,797	2.7	8,797	2.4	8,797	14.5	8,797	17.1 14.5
Total	18,760	4.9	18,760	2.6	18,760	12.1	8,797	17.1 14.5
All Other/Unknown								
0 - 11 Months	101	8.9	101	1.0	101	12.9	0	0.0 0.0
12 - 23 Months	5	*	5	*	5	*	0	* *
24 - 59 Months	2	*	2	*	2	*	2	* *
Total	108	8.3	108	0.9	108	13.0	2	* *
Total All Race/Ethnic Groups								
0 - 11 Months	85,287	9.2	85,287	4.2	85,287	6.6	0	0.0 0.0
12 - 23 Months	52,741	5.5	52,741	0.4	52,741	12.5	0	0.0 0.0
24 - 59 Months	116,006	3.3	116,006	2.9	116,006	13.3	116,006	16.6 13.3
Total	254,034	5.7	254,034	2.8	254,034	10.9	116,006	16.6 13.3

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.

(5) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age $<$ 5th percentile, underweight is defined as BMI-for-age $<$ 5th percentile, overweight is defined as BMI-for-age \geq 85th to $<$ 95th percentile, and obesity is defined as \geq 95th percentile.

* Percentages are not calculated if $<$ 100 records are available for analysis after exclusions.



Table 17C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Anemia Indicators by Race/Ethnicity and Age
Children Aged < 5 Years (2)

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Run Date: 3 / 12 / 12

Anemia Indicators by Race/Ethnicity and Age (3, 4)					
	Anemia Low Hb/Hct %			Anemia Low Hb/Hct %	
	Number			Number	
White, Not Hispanic			Asian/Pacific Islander		
6 - 11 Months	4,347	15.9	6 - 11 Months	157	17.2
12 - 17 Months	19,657	14.6	12 - 17 Months	606	16.3
18 - 23 Months	12,013	10.7	18 - 23 Months	374	11.2
24 - 35 Months	18,278	11.0	24 - 35 Months	539	16.0
36 - 59 Months	30,821	7.6	36 - 59 Months	931	12.9
Total	85,116	10.8	Total	2,607	14.3
Black, Not Hispanic			Multiple Races		
6 - 11 Months	2,824	26.0	6 - 11 Months	638	17.7
12 - 17 Months	9,246	28.8	12 - 17 Months	2,730	17.7
18 - 23 Months	6,082	25.4	18 - 23 Months	1,889	14.8
24 - 35 Months	8,574	27.7	24 - 35 Months	2,697	14.6
36 - 59 Months	14,532	19.5	36 - 59 Months	4,474	11.5
Total	41,258	24.6	Total	12,428	14.4
Hispanic			All Other/Unknown		
6 - 11 Months	1,265	18.4	6 - 11 Months	7	*
12 - 17 Months	5,080	18.9	12 - 17 Months	9	*
18 - 23 Months	3,467	14.2	18 - 23 Months	0	*
24 - 35 Months	5,438	14.9	24 - 35 Months	0	*
36 - 59 Months	9,642	9.0	36 - 59 Months	0	*
Total	24,892	13.5	Total	16	*
American Indian/Alaska Native			Total All Race/Ethnic Groups		
6 - 11 Months	25	*	6 - 11 Months	9,263	19.4
12 - 17 Months	90	*	12 - 17 Months	37,418	18.9
18 - 23 Months	61	*	18 - 23 Months	23,886	15.3
24 - 35 Months	101	16.8	24 - 35 Months	35,627	16.0
36 - 59 Months	154	16.2	36 - 59 Months	60,554	11.1
Total	431	14.6	Total	166,748	15.0

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 18C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan

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Run Date: 3 / 12 / 12

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity
Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity ⁽³⁾													
Race/Ethnicity and Year		Birthweight ⁽⁴⁾			Height and Weight (5,6)							Anemia Low Hb/Hct (7)	
		Low		High	Short Stature		Under- weight	Obese	≥ 2 Yrs Overweight and Obese				
		Number	% <2500 g	% >4000 g	Number	%	%	%	Number	% Overweight	% Obese	Number	%
White, Not Hispanic	2011	30,456	7.8	8.4	130,074	5.6	2.5	10.3	59,436	16.8	12.7	85,116	10.8
	2010	22,607	7.5	8.7	119,719	5.5	2.6	10.6	55,012	16.6	12.5	70,473	11.5
	2009	31,582	8.1	8.2	133,034	5.8	2.5	11.1	59,598	16.8	13.0	87,069	10.9
	2008	30,591	8.1	8.6	128,234	7.0	2.7	11.0	54,822	16.8	13.2	77,466	11.3
	2007	30,193	8.3	8.6	122,476	6.9	2.8	10.7	51,648	16.6	12.8	75,451	10.8
	2006	29,753	8.3	8.6	120,520	6.9	3.0	10.6	51,083	16.3	12.5	73,889	9.4
	2005	20,565	8.3	9.1	109,866	6.3	2.8	10.8	49,196	15.9	12.2	72,852	10.4
	2004	31,141	8.5	9.4	128,363	6.9	2.8	11.3	54,702	16.6	13.0	79,361	10.2
	2003	29,794	8.2	9.4	125,521	6.9	2.9	11.1	53,935	17.0	13.0	77,964	10.2
	2002	29,351	8.1	9.6	126,089	7.1	3.1	10.7	54,228	16.4	12.5	80,477	9.8
Black, Not Hispanic	2011	16,631	13.6	4.0	65,017	6.5	3.8	9.5	27,832	14.2	10.8	41,258	24.6
	2010	12,304	13.0	4.1	58,028	6.3	4.0	10.3	24,914	13.9	11.2	33,486	25.4
	2009	16,955	13.3	3.7	64,883	6.6	4.1	10.5	27,524	14.5	11.0	40,616	24.4
	2008	15,726	13.5	4.2	62,486	8.2	4.0	11.0	25,987	14.6	11.6	35,668	25.2
	2007	15,488	13.5	4.2	60,815	8.4	4.1	10.5	25,042	14.2	11.5	35,047	23.9
	2006	15,319	14.2	4.2	59,686	8.5	4.1	10.5	24,652	14.0	11.0	33,317	21.3
	2005	10,733	14.4	5.1	54,895	7.7	4.1	10.6	24,285	13.4	10.6	34,245	22.1
	2004	14,933	13.3	5.1	63,303	8.0	4.3	11.4	27,132	14.2	11.0	38,016	20.3
	2003	14,534	13.0	5.7	62,808	7.9	4.5	11.0	27,191	13.7	10.7	38,290	20.4
	2002	14,426	13.4	5.2	63,832	7.8	4.7	10.4	27,738	13.7	10.4	40,434	20.5

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 18C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan

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Run Date: 3 / 12 / 12

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity
Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity ⁽³⁾													
Race/Ethnicity and Year		Birthweight ⁽⁴⁾			Height and Weight (5,6)							Anemia Low Hb/Hct (7)	
		Low		High	Short Stature		Under- weight	Obese	≥ 2 Yrs Overweight and Obese				
		Number	% <2500 g	% >4000 g	Number	%	%	%	Number	% Overweight	% Obese	Number	%
Hispanic	2011	7,285	7.3	7.5	35,517	5.2	1.9	14.9	17,835	19.3	18.4	24,892	13.5
	2010	5,520	6.8	7.2	33,389	5.1	1.8	15.2	16,820	18.8	18.5	21,048	14.2
	2009	7,628	6.4	7.9	36,725	5.4	1.9	16.1	18,096	18.7	19.6	25,250	13.5
	2008	6,850	6.9	8.4	33,060	6.8	2.2	16.3	15,554	19.1	20.1	19,299	15.0
	2007	6,798	6.9	7.9	32,055	6.7	2.2	15.9	14,753	19.4	20.3	19,331	12.8
	2006	6,648	7.1	8.2	30,929	6.6	2.1	15.5	13,948	19.3	19.7	19,109	11.2
	2005	4,771	7.0	8.7	25,494	6.2	2.1	15.7	12,253	18.5	18.2	16,744	12.3
	2004	5,338	6.2	8.4	25,588	7.2	2.5	15.6	12,076	17.8	18.3	16,436	10.5
	2003	5,323	6.5	9.5	24,004	7.6	2.6	14.8	10,961	18.0	17.9	15,245	10.2
	2002	4,683	6.6	8.9	22,869	7.5	2.9	14.6	10,328	17.4	17.2	15,636	11.0
American Indian/Alaska Native	2011	156	5.8	12.8	709	3.7	1.4	17.9	342	19.6	21.1	431	14.6
	2010	108	5.6	12.0	532	5.8	2.3	18.2	229	17.0	19.7	303	10.6
	2009	175	8.6	12.6	625	6.7	2.1	14.1	272	22.1	17.3	397	9.8
	2008	126	8.7	11.9	705	6.5	2.0	14.5	330	17.6	16.7	474	12.0
	2007	192	8.9	14.6	777	5.0	3.9	13.6	359	17.0	16.7	459	12.0
	2006	157	5.7	14.6	806	5.6	3.2	16.4	395	18.0	17.2	537	10.2
	2005	163	8.0	14.1	1,082	5.3	2.1	17.5	514	16.9	20.8	748	14.4
	2004	395	7.8	9.6	1,562	6.9	1.9	15.9	663	22.9	17.0	983	11.6
	2003	347	6.3	12.1	1,442	6.4	2.5	13.5	631	21.1	15.8	930	10.1
	2002	320	5.6	12.8	1,377	6.0	2.0	14.4	602	19.8	15.8	910	8.4

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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Table 18C
2011 Pediatric Nutrition Surveillance ⁽¹⁾
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Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity
Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity ⁽³⁾													
Race/Ethnicity and Year		Birthweight ⁽⁴⁾			Height and Weight (5,6)							Anemia Low Hb/Hct (7)	
		Low	High		Short Stature	Under- weight	Obese	≥ 2 Yrs Overweight and Obese					
		Number	% <2500 g	% >4000 g	Number	%	%	%	Number	% Overweight	% Obese	Number	%
Asian/Pacific Islander	2011	868	9.3	2.9	3,849	6.6	4.2	9.2	1,762	13.2	11.9	2,607	14.3
	2010	681	8.8	5.1	3,443	6.6	4.6	9.5	1,573	12.3	11.0	2,081	17.2
	2009	883	10.0	3.6	3,636	6.7	4.9	8.8	1,580	13.6	11.7	2,357	18.2
	2008	820	7.0	3.3	3,700	7.9	4.8	10.5	1,665	13.5	13.1	2,150	17.9
	2007	787	8.1	4.7	3,548	6.2	4.3	9.4	1,594	15.0	11.4	1,992	12.9
	2006	829	9.7	4.2	3,694	7.7	4.8	9.9	1,595	13.0	11.7	2,091	12.7
	2005	645	10.4	5.3	3,233	7.0	5.8	10.2	1,424	12.2	12.4	2,059	13.6
	2004	797	7.4	6.5	3,281	7.3	4.2	10.1	1,288	13.7	12.3	1,906	12.4
	2003	794	7.9	4.4	3,089	7.8	4.1	10.6	1,244	15.3	13.2	1,821	13.4
	2002	659	8.6	5.0	2,755	8.2	2.9	10.3	1,169	15.7	13.0	1,698	12.6
Multiple Races	2011	4,135	8.9	7.2	18,760	4.9	2.6	12.1	8,797	17.1	14.5	12,428	14.4
	2010	2,991	8.3	6.7	16,194	4.8	2.5	13.2	7,468	16.8	14.6	9,724	15.2
	2009	3,882	8.9	7.2	16,691	5.5	2.2	13.0	7,419	17.6	14.8	11,194	15.2
	2008	3,122	9.0	7.8	12,691	7.0	2.6	12.7	5,165	17.7	15.0	7,997	17.9
	2007	2,905	10.0	6.7	11,408	6.8	2.7	12.6	4,509	16.7	15.3	7,024	14.8
	2006	2,852	8.8	8.5	10,521	6.4	3.1	12.3	4,105	17.3	15.4	6,218	14.2
	2005	1,422	8.6	7.7	4,625	7.2	2.5	12.0	1,858	17.2	15.7	2,640	15.1
	2004	0	*	*	0	*	*	*	0	*	*	0	*
	2003	0	*	*	0	*	*	*	0	*	*	0	*
	2002	0	*	*	0	*	*	*	0	*	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age \geq 85th to < 95th percentile, and obesity is defined as \geq 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 18C
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Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity
Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity ⁽³⁾													
Race/Ethnicity and Year		Birthweight ⁽⁴⁾			Height and Weight (5,6)						Anemia Low Hb/Hct (7)		
		Low	High	Short Stature	Under- weight	Obese	≥ 2 Yrs Overweight and Obese						
		Number	% <2500 g	% >4000 g	Number	%	%	%	Number	% Overweight	% Obese	Number	%
All Other/Unknown	2011	51	*	*	108	8.3	0.9	13.0	2	*	*	16	*
	2010	33	*	*	91	*	*	*	3	*	*	6	*
	2009	39	*	*	58	*	*	*	0	*	*	4	*
	2008	0	*	*	1	*	*	*	0	*	*	0	*
	2007	0	*	*	0	*	*	*	0	*	*	0	*
	2006	1	*	*	10	*	*	*	2	*	*	7	*
	2005	15,333	9.6	7.5	23,722	10.2	5.2	8.3	5,697	15.5	11.8	7,248	15.0
	2004	0	*	*	2	*	*	*	2	*	*	2	*
	2003	0	*	*	0	*	*	*	0	*	*	0	*
	2002	0	*	*	0	*	*	*	0	*	*	0	*
Total All Race/Ethnic Groups	2011	59,582	9.4	6.9	254,034	5.7	2.8	10.9	116,006	16.6	13.3	166,748	15.0
	2010	44,244	9.0	7.0	231,396	5.6	2.8	11.4	106,019	16.3	13.3	137,121	15.6
	2009	61,144	9.4	6.8	255,652	6.0	2.8	11.7	114,489	16.6	13.7	166,887	15.0
	2008	57,235	9.5	7.2	240,877	7.3	3.0	11.8	103,523	16.6	13.9	143,054	15.7
	2007	56,363	9.6	7.2	231,079	7.2	3.1	11.5	97,905	16.4	13.7	139,304	14.6
	2006	55,559	9.8	7.3	226,166	7.3	3.2	11.3	95,780	16.2	13.3	135,168	12.9
	2005	53,632	9.8	7.8	222,917	7.1	3.3	11.1	95,227	15.6	12.7	136,536	14.0
	2004	52,604	9.6	8.0	222,099	7.2	3.2	11.8	95,863	16.1	13.2	136,704	13.1
	2003	50,792	9.4	8.3	216,864	7.3	3.4	11.5	93,962	16.1	12.9	134,250	13.1
	2002	49,439	9.5	8.2	216,922	7.4	3.6	11.1	94,065	15.7	12.4	139,155	13.0

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age \geq 85th to < 95th percentile, and obesity is defined as \geq 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 19C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Breastfeeding Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

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Summary of Trends in Breastfeeding Indicators by Race/Ethnicity ⁽³⁾							
Race/Ethnicity and Year		Breastfeeding ⁽⁴⁾					
		Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
White, Not Hispanic	2011	30,768	65.6	23,790	21.0	21,565	9.8
	2010	22,868	60.6	16,052	20.6	15,955	9.7
	2009	32,100	59.2	23,210	20.5	22,201	8.9
	2008	31,845	57.7	22,459	16.7	20,353	12.3
	2007	31,633	56.4	23,935	15.7	20,596	12.5
	2006	31,248	55.1	22,705	16.3	19,128	13.6
	2005	21,842	55.2	21,948	15.9	20,000	12.9
	2004	32,949	52.6	25,703	15.1	20,587	12.3
	2003	31,430	51.8	24,353	15.4	19,700	12.3
	2002	31,081	50.6	24,869	14.4	20,076	11.3
Black, Not Hispanic	2011	16,744	46.3	12,646	11.9	10,347	4.6
	2010	12,400	41.3	8,370	11.2	7,110	4.6
	2009	17,117	39.0	12,038	12.2	10,598	4.5
	2008	16,573	39.2	10,408	10.7	9,702	8.9
	2007	16,320	37.8	10,914	11.3	9,875	9.6
	2006	16,154	38.0	10,751	11.4	9,481	8.8
	2005	11,468	37.7	10,478	10.5	9,689	9.0
	2004	15,957	35.5	12,274	10.2	10,169	7.8
	2003	15,590	34.3	12,098	9.8	9,830	8.2
	2002	15,315	33.5	12,091	9.2	10,272	7.4

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 19C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Breastfeeding Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

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Summary of Trends in Breastfeeding Indicators by Race/Ethnicity ⁽³⁾							
Race/Ethnicity and Year		Breastfeeding ⁽⁴⁾					
		Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
Hispanic	2011	7,365	62.8	5,732	22.2	5,652	10.1
	2010	5,609	61.7	3,953	20.8	4,123	10.2
	2009	7,787	61.0	5,813	24.4	5,817	9.9
	2008	7,319	60.8	4,941	22.9	5,008	16.7
	2007	7,329	61.9	5,552	21.8	5,363	17.3
	2006	7,220	62.9	5,450	22.6	5,168	17.8
	2005	5,147	65.1	4,557	22.4	4,472	17.4
	2004	5,778	61.7	4,523	22.2	4,323	18.3
	2003	5,709	63.4	4,142	22.8	3,775	18.1
	2002	5,002	61.3	4,013	21.2	3,945	15.9
American Indian/Alaska Native	2011	170	58.2	130	18.5	109	10.1
	2010	109	56.9	79	*	73	*
	2009	178	53.9	107	14.0	85	*
	2008	135	48.1	126	15.9	132	12.1
	2007	198	60.6	114	11.4	112	9.8
	2006	166	51.8	128	16.4	120	5.8
	2005	168	60.1	199	18.1	196	14.8
	2004	405	53.3	258	16.3	261	11.1
	2003	359	46.8	272	18.0	237	12.7
	2002	329	52.9	248	12.5	224	10.7

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 19C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Breastfeeding Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

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Summary of Trends in Breastfeeding Indicators by Race/Ethnicity ⁽³⁾							
Race/Ethnicity and Year		Breastfeeding ⁽⁴⁾					
		Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
Asian/Pacific Islander	2011	896	69.4	694	34.9	667	22.2
	2010	691	60.1	442	31.7	440	17.5
	2009	902	61.8	642	29.3	638	15.0
	2008	870	63.3	580	31.4	499	29.3
	2007	841	59.8	617	28.4	556	25.9
	2006	897	60.3	686	29.9	604	23.8
	2005	693	56.9	641	31.4	594	21.5
	2004	872	56.8	701	24.5	611	20.8
	2003	865	56.4	680	28.1	498	16.9
	2002	706	53.0	558	20.8	458	16.2
Multiple Races	2011	4,153	58.8	3,349	14.9	3,084	6.5
	2010	3,008	53.3	2,173	14.2	2,196	6.0
	2009	3,907	52.3	3,030	14.7	3,007	6.3
	2008	3,337	48.0	2,276	11.6	2,082	7.9
	2007	3,005	51.7	2,344	11.3	2,091	8.6
	2006	2,990	50.1	2,167	12.0	1,797	9.2
	2005	1,496	50.5	956	12.1	779	8.5
	2004	0	*	0	*	0	*
	2003	0	*	0	*	0	*
	2002	0	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 19C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Breastfeeding Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

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Summary of Trends in Breastfeeding Indicators by Race/Ethnicity ⁽³⁾							
Race/Ethnicity and Year		Breastfeeding ⁽⁴⁾					
		Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
All Other/Unknown	2011	57	*	68	*	12	*
	2010	43	*	61	*	3	*
	2009	47	*	39	*	1	*
	2008	1	*	2	*	0	*
	2007	0	*	0	*	0	*
	2006	1	*	3	*	5	*
	2005	16,477	49.6	3,759	16.9	848	3.9
	2004	0	*	0	*	0	*
	2003	0	*	0	*	0	*
	2002	0	*	0	*	0	*
Total All Race/Ethnic Groups	2011	60,153	59.5	46,409	18.4	41,436	8.5
	2010	44,728	54.9	31,130	17.8	29,900	8.4
	2009	62,038	53.5	44,879	18.5	42,347	7.8
	2008	60,080	52.5	40,792	15.8	37,776	12.0
	2007	59,326	51.8	43,476	15.3	38,593	12.4
	2006	58,676	51.2	41,890	15.8	36,303	12.9
	2005	57,291	50.9	42,538	15.5	36,578	12.2
	2004	55,961	48.7	43,459	14.6	35,951	11.9
	2003	53,953	48.0	41,545	14.7	34,040	11.8
	2002	52,433	46.7	41,779	13.6	34,975	10.7

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 20C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Growth Indicators by Age
Children Aged < 5 Years (2)

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Summary of Trends in Growth Indicators by Age ⁽³⁾																		
Age and Year *	Height and Weight (4,5)									Age and Year *	Height and Weight (4,5)							
	Short Stature Under- Obese weight				≥ 2 Yrs Overweight and Obese						Short Stature Under- Obese weight				≥ 2 Yrs Overweight and Obese			
	Number	%	%	%	Number	%	%				Number	%	%	%	Number	%	%	
0 - 11 Months									24 - 35 Months									
2011	85,287	9.2	4.2	6.6	0	*	*		2011	42,218	3.5	2.8	11.6	42,218	15.9	11.6		
2010	74,490	8.9	4.2	7.5	0	*	*		2010	41,096	3.4	3.0	11.8	41,096	15.6	11.8		
2009	82,936	9.4	4.6	7.6	0	*	*		2009	44,221	3.9	2.8	12.3	44,221	16.0	12.3		
2008	84,332	11.5	4.5	7.9	0	*	*		2008	40,648	4.7	3.2	12.6	40,648	16.0	12.6		
2007	82,781	11.1	4.4	7.7	0	*	*		2007	38,304	4.7	3.3	12.3	38,304	15.8	12.3		
2006	81,835	11.2	4.1	7.8	0	*	*		2006	37,595	4.6	3.7	11.9	37,595	15.8	11.9		
2005	79,512	11.0	4.2	8.0	0	*	*		2005	36,469	4.2	4.0	11.1	36,469	14.9	11.1		
2004	79,166	11.1	4.1	8.6	0	*	*		2004	36,379	4.6	3.7	12.0	36,379	15.4	12.0		
2003	77,495	10.6	4.2	8.5	0	*	*		2003	36,372	4.8	3.9	11.8	36,372	15.6	11.8		
2002	76,390	11.1	4.8	8.0	0	*	*		2002	36,515	4.6	4.0	11.4	36,515	15.1	11.4		
12 - 23 Months									36 - 47 Months									
2011	52,741	5.5	0.4	12.5	0	*	*		2011	38,125	3.2	3.0	13.8	38,125	16.6	13.8		
2010	50,887	5.6	0.4	13.0	0	*	*		2010	35,634	3.4	3.2	13.5	35,634	16.2	13.5		
2009	58,227	5.8	0.3	13.9	0	*	*		2009	37,612	3.4	3.1	14.2	37,612	16.4	14.2		
2008	53,022	6.6	0.5	14.0	0	*	*		2008	34,282	3.9	3.1	14.5	34,282	16.6	14.5		
2007	50,393	6.6	0.5	13.3	0	*	*		2007	32,415	4.2	3.5	14.1	32,415	16.6	14.1		
2006	48,551	6.6	0.5	13.5	0	*	*		2006	31,368	4.0	3.9	13.8	31,368	16.3	13.8		
2005	48,178	6.4	0.5	13.3	0	*	*		2005	31,555	4.3	4.2	13.0	31,555	15.5	13.0		
2004	47,070	6.6	0.5	14.5	0	*	*		2004	32,687	4.4	3.8	13.6	32,687	16.0	13.6		
2003	45,407	7.0	0.6	13.7	0	*	*		2003	31,691	4.6	4.3	13.2	31,691	16.4	13.2		
2002	46,467	6.8	0.6	13.2	0	*	*		2002	31,111	4.6	4.0	13.1	31,111	15.9	13.1		

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.

(5) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age $<$ 5th percentile, underweight is defined as BMI-for-age $<$ 5th percentile, overweight is defined as BMI-for-age \geq 85th to $<$ 95th percentile, and obesity is defined as \geq 95th percentile.

* Percentages are not calculated if $<$ 100 records are available for analysis after exclusions.



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- (1) Reporting period is January 1 through December 31.
- (2) Analyses based on one record per child.
- (3) Excludes records with unknown data or errors.
- (4) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 97.7th percentile.
- (5) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age $<$ 5th percentile, underweight is defined as BMI-for-age $<$ 5th percentile, overweight is defined as BMI-for-age \geq 85th to $<$ 95th percentile, and obesity is defined as \geq 95th percentile.

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Table 21C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Anemia by Age
Children Aged < 5 Years (2)

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Summary of Trends in Anemia by Age (3)						
Age and Year		Anemia Low Hb/Hct (4)				
		Number	%			
6 - 11 Months				18 - 23 Months		
	2011	9,263	19.4		2011	23,886 15.3
	2010	7,892	19.6		2010	20,958 15.6
	2009	9,254	17.6		2009	25,727 15.0
	2008	6,826	20.3		2008	21,872 16.0
	2007	7,066	18.2		2007	20,581 15.2
	2006	7,421	15.6		2006	19,732 13.0
	2005	7,508	16.7		2005	20,105 14.7
	2004	6,915	16.3		2004	19,903 13.3
	2003	7,718	16.6		2003	19,678 13.6
	2002	13,917	14.3		2002	20,855 13.5
12 - 17 Months				24 - 35 Months		
	2011	37,418	18.9		2011	35,627 16.0
	2010	31,351	18.7		2010	30,178 17.2
	2009	37,476	18.0		2009	37,290 16.5
	2008	34,254	18.3		2008	31,871 16.9
	2007	33,931	17.6		2007	31,026 15.9
	2006	32,334	14.9		2006	30,393 14.2
	2005	32,429	16.0		2005	30,215 15.3
	2004	32,249	15.3		2004	30,100 14.3
	2003	30,495	15.1		2003	30,750 14.5
	2002	28,353	15.1		2002	28,354 15.1

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

* Percentages are not calculated if < 100 records are available for analysis after exclusions.



Table 21C
2011 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Anemia by Age
Children Aged < 5 Years (2)

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Summary of Trends in Anemia by Age (3)								
Age and Year		Anemia Low Hb/Hct (4)			Age and Year		Anemia Low Hb/Hct (4)	
		Number	%		Number	%		
36 - 59 Months					Total All Age Groups			
	2011	60,554	11.1			2011	166,748	15.0
	2010	46,742	11.9			2010	137,121	15.6
	2009	57,140	11.6			2009	166,887	15.0
	2008	48,231	12.4			2008	143,054	15.7
	2007	46,700	10.9			2007	139,304	14.6
	2006	45,288	10.0			2006	135,168	12.9
	2005	46,279	10.9			2005	136,536	14.0
	2004	47,537	10.2			2004	136,704	13.1
	2003	45,609	10.2			2003	134,250	13.1
	2002	47,676	10.0			2002	139,155	13.0
All Other/Unknown								
	2011	0	*					
	2010	0	*					
	2009	0	*					
	2008	0	*					
	2007	0	*					
	2006	0	*					
	2005	0	*					
	2004	0	*					
	2003	0	*					
	2002	0	*					

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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